

M E M O R A N D U M

TO: LEE E. STANFORD (X2547)

FROM: DONALD J. KEMNA (X2545)

DATE: JULY 3, 1990

RE: PHILIP MORRIS FINDING OF NO TRANSFER OF EBDC OR ETU INTO  
MAINSTREAM TOBACCO SMOKE

CC: ANTHONY ANDRADE  
JAMES M. CHOLAKIS (X2539)  
DONALD K. HOEL  
JAMES T. NEWSOM (X3060)

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On Tuesday, July 3, Jim Cholakis and I spoke with Dr. Bourlas regarding the NTP study on ETU. Dr. Bourlas was familiar with the NTP study and felt comfortable with his level of preparation for the meeting with the Technical Group for the Italian Health Ministry on July 5. During the course of our telephone conversation, Dr. Bourlas noted that he recently discussed the EBDC-ETU mainstream transfer issue with some of the technical people at Philip Morris. Recent mainstream transfer research at Philip Morris has shown that no EBDC transfers into mainstream cigarette smoke as the parent compound or the breakdown product, ETU. Sophisticated detection methods were utilized (Tandem (sp.), mass spectroscopy) with a sensitivity down to the parts per billion (ppb) level. The cigarette tobacco was spiked with EBDCs to achieve concentrations of 57 mcg/g and 114 mcg/g respectively in two test samples. Evaluation of mainstream smoke generated from the combustion of samples at both concentrations resulted in no detection of EBDCs or ETU.

Dr. Bourlas expressed his confidence that these research results help tremendously to support the industry's position on the dithiocarbamate regulatory issue in Italy. He indicated his intention not to discuss these particular company findings during his meeting with the Technical Group. He plans to explore the possibility of Philip Morris funding of an independent research group to replicate these favorable EBDC-ETU findings for eventual publication.

2501236079 Please note that R.J. Reynolds has a copy of the previous EBDC-ETU study that reported a finding of ETU transfer into mainstream smoke. To my knowledge, they have not been apprised of

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the more recent finding at Philip Morris of no detectable EBDC or ETU transfer into mainstream smoke. We should keep this in mind regarding future discussions with Reynolds' counsel and consider whether they should be informed of these recent favorable findings.

DJK/lap

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